(17)

SEQUENCE LISTING

<110> Oncoimmunin, Inc.
Komoriya, Akira
Packard, Beverly

<120> COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL SAMPLES AND METHODS OF USE THEREOF

<130> 300-903840US

<140> US 09/874,350
<141> 2001-06-04

<150> PCT/US98/00300
<151> 1998-02-20

<150> PCT/US00/24882
<151> 2000-09-11

<150> US 09/394,019
<151> 1999-09-10

<150> US 08/802,981
<151> 1997-02-20

<160> 221

<170> PatentIn version 3.2

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Lys Gly Lys

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<400> 38

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 39
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<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 39

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 40
<211> 19
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<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 40

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 41
<211> 20
<212> PRT
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<222> (6)..(7)
<223> Xaa can be any naturally occurring amino acid

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<223> X is epsilon aminocaproic acid

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<221> misc_feature
<222> (16)..(16)
<223> Xaa can be any naturally occurring amino acid

<400> 41

Lys Asp Xaa Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 42
<211> 20
<212> PRT
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<222> (6)..(7)
<223> W is D form

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<400> 42

Lys Asp Xaa Xaa Gly Trp Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 43
<211> 14
<212> PRT
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<400> 43

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 44
<211> 14
<212> PRT
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<400> 44

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 45
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<400> 45

Lys Asp Xaa Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 46
<211> 16
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<220>
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 46

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 47
<211> 16
<212> PRT
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<220>
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<220>
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<222> (3)..(3)
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<400> 47

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Pro Lys Gly Tyr
1 5 10 15

<210> 48
<211> 16
<212> PRT

<213> Artificial

<220>
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<220>
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<222> (3)..(3)
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<400> 48

Lys Asp Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Pro Lys Gly Tyr
1 5 10 15

<210> 49
<211> 18
<212> PRT
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<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 49

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 50
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 50

Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 51

<211> 18
<212> PRT
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<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 51

Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 52
<211> 18
<212> PRT
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<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 52

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 53
<211> 18
<212> PRT
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<220>
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<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 53

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 54
<211> 18
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<400> 54

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 55
<211> 14
<212> PRT
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<220>
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<220>
<221> misc_feature
<222> (3)..(3)
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<400> 55

Lys Asp Xaa Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 56
<211> 14
<212> PRT
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<220>
<223> Protease indicator

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<400> 56

Lys Asp Xaa Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 57
<211> 14
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<220>
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<223> Xaa is alpha-aminoisobutyric acid

<400> 57

Lys Asp Xaa Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 58
<211> 16
<212> PRT
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<220>
<223> Protease indicator

<220>
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<400> 58

Lys Asp Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 59
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<220>
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<400> 59

Lys Asp Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 60
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<400> 60

Lys Asp Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 61
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 61

Lys Asp Xaa Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 62
<211> 17
<212> PRT
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<220>
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<220>
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<220>
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<222> (4)..(4)
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<400> 62

Lys Asp Xaa Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 63
<211> 17
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<400> 63

Lys Asp Xaa Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 64
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<400> 64

Lys Asp Xaa Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly
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Tyr

<210> 65
<211> 17
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<400> 65

Lys Asp Xaa Xaa Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 66
<211> 18
<212> PRT
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<400> 66

Lys Asp Xaa Xaa Gly Asp Tyr Val His Asp Ala Pro Val Gly Pro Lys
1 5 10 15

Gly Tyr

<210> 67
<211> 17
<212> PRT

<213> Artificial

<220>
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<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

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<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 67

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 68
<211> 17
<212> PRT
<213> Artificial

<220>
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<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 68

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 69
<211> 14
<212> PRT
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<220>
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<220>

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<223> X is Aib

<220>
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<400> 69

Lys Asp Xaa Leu Val Glu Ile Asp Asn Gly Pro Lys Gly Tyr
1 5 10

<210> 70

<211> 16
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<220>
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<220>
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<222> (3)..(3)
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<400> 70

Lys Asp Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Pro Lys Gly Tyr
1 5 10 15

<210> 71
<211> 18
<212> PRT
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<220>
<223> Synthetic peptide substrate

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<220>
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<222> (14)..(14)

<223> Xaa can be any naturally occurring amino acid

<400> 71

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 72
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<220>
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<400> 72

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asn Asn Gly Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 73
<211> 18
<212> PRT
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 73

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 74
<211> 16
<212> PRT
<213> Artificial

<220>
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<220>
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<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<400> 74

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 75
<211> 16
<212> PRT
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<220>
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<223> X is episilon-aminocaproic acid

<220>
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<222> (12)..(12)
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<400> 75

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 76
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<212> PRT
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<220>
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<400> 76

Lys Asp Xaa Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Pro Lys Gly
1 5 10 15

Tyr

<210> 77
<211> 17
<212> PRT
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<220>
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<220>
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<222> (3)..(3)
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<400> 77

Lys Asp Xaa Gly Ile Glu Thr Asn Ser Gly Val Asp Asp Pro Lys Gly
1 5 10 15

Tyr

<210> 78
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<212> PRT
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<220>
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<222> (3)..(3)
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<400> 78

Lys Asp Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 79
<211> 17
<212> PRT
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<220>
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<223> X is Aib

<220>
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<222> (3)..(3)
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<400> 79

Lys Asp Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 80
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

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<400> 80

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Tyr

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<400> 81

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Tyr

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<400> 82

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<400> 83

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Lys Gly Tyr

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Tyr

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Lys Gly Tyr

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Lys Gly Tyr

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Lys Gly Tyr

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Lys Gly Tyr

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Gly Tyr

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Gly Tyr

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Gly Tyr

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Gly Tyr

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Lys Gly Tyr

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<400> 112

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Pro Lys Gly Tyr
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<400> 113

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Pro Lys Gly Tyr
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<400> 114

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Pro Lys Gly Tyr
20

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<400> 115

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Tyr

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<400> 116

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Tyr

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Tyr

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<400> 118

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Tyr

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<400> 119

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<400> 120

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
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Tyr

<210> 121
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<400> 121

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Tyr

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Lys Asp Pro Xaa Thr Gly Arg Thr
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<400> 123

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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<400> 124

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

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<400> 126

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<400> 127

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Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
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<400> 130

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Tyr

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Tyr

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Tyr

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<400> 136

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1 5 10 15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
20 25

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<400> 137

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

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<400> 138

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
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Pro Lys Gly Tyr
20

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Pro Lys Asp Asp Tyr
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Pro Lys Asp Asp Tyr
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Pro Lys Asp Asp Tyr
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Pro Lys Asp Asp Tyr
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Pro Lys Asp Asp Tyr
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Gly Xaa Pro Lys Asp Asp Tyr
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<400> 145

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1 5 10 15

Thr Gly Xaa Pro Lys Asp Asp Tyr
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<210> 146
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<400> 146

Lys Asp Xaa Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

<210> 147
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<400> 147

Lys Asp Xaa Xaa Asx Tyr Gly Val Val Ile Ala Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

<210> 148
<211> 15
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<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 148

Lys Asp Xaa Xaa Xaa Gln Gln Leu Leu His Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 149
<211> 15
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<400> 149

Lys Asp Xaa Xaa Gly Gln Gln Leu Leu His Asn Gly Xaa Pro Lys
1 5 10 15

<210> 150
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<400> 150

Lys Asp Xaa Gly Gln Gln Leu Leu His Asn Gly Pro Lys
1 5 10

<210> 151
<211> 11
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<220>
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<400> 151

Lys Asp Xaa Gln Gln Leu Leu His Asn Pro Lys
1 5 10

<210> 152
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<220>
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<400> 152

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1 5 10 15

<210> 153
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<400> 153

Lys Asp Xaa Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
1 5 10 15

<210> 154
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<400> 154

Lys Asp Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1 5 10

<210> 155
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<400> 155

Lys Asp Xaa Ser Ile Gln Tyr Thr Tyr Pro Lys
1 5 10

<210> 156
<211> 15
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<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 156

Lys Asp Xaa Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 157
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<220>
<221> misc_feature
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<400> 157

Lys Asp Xaa Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys
1 5 10 15

<210> 158
<211> 13

<212> PRT
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<400> 158

Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1 5 10

<210> 159
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<400> 159

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1 5 10

<210> 160
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<400> 160

Lys Asp Xaa Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys
1 5 10 15

<210> 161
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<220>
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<400> 161

Lys Asp Xaa Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1 5 10 15

<210> 162
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<400> 162

Lys Asp Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1 5 10

<210> 163
<211> 11
<212> PRT

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<220>
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<222> (3)..(3)
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<400> 163

Lys Asp Xaa Ser Ser Ile Tyr Ser Gln Pro Lys
1 5 10

<210> 164
<211> 20
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<221> misc_feature
<222> (16)..(16)
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<400> 164

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
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<210> 165
<211> 18
<212> PRT
<213> Artificial

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
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<400> 165

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 166
<211> 18
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<220>
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<220>
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<222> (14)..(14)
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<400> 166

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 167
<211> 18
<212> PRT
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<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 167

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 168
<211> 15
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<220>
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<221> misc_feature
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<400> 168

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 169
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<220>
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<220>
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<220>
<221> misc_feature
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<400> 169

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 170
<211> 18
<212> PRT
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<220>

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<220>
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<220>
<221> misc_feature
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<223> Xaa is episilon aminocaproic acid (Ahx)

<400> 170

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 171
<211> 18
<212> PRT
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<220>
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<220>
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<220>
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<400> 171

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 172
<211> 16
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<220>
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<220>
<221> misc_feature
<222> (12)..(12)
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<400> 172

Lys Asp Pro Xaa Val His Asp Ala Pro Val Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 173
<211> 16
<212> PRT
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<220>
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<400> 173

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 174
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<400> 174

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 175
<211> 18
<212> PRT
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<220>
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<220>
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<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 175

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 176
<211> 19
<212> PRT
<213> Artificial

<220>
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<220>
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<220>
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<223> X is epsilon aminocaproic acid

<220>
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<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 176

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro

1 5 10 15

Lys Gly Tyr

<210> 177
<211> 18
<212> PRT
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<220>
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<223> K is blocked with Fa

<220>
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<220>
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<220>
<221> misc_feature
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<400> 177

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 178
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Peptide spacer

<400> 178

Asp Gly Ser Gly Gly Gly Glu Asp Glu Lys
1 5 10

<210> 179
<211> 7
<212> PRT
<213> Artificial

<220>
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<400> 179

Lys Glu Asp Gly Gly Asp Lys
1 5

<210> 180
<211> 8
<212> PRT
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<220>
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<220>
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<400> 180

Asp Gly Ser Gly Glu Asp Glu Lys
1 5

<210> 181
<211> 9
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<220>
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<220>
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<222> (1)..(9)
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<400> 181

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1 5

<210> 182
<211> 8
<212> PRT
<213> Artificial

<220>
<223> protease inhibitor

<400> 182

Asp Val Val Cys Cys Ser Met Ser
1 5

<210> 183
<211> 7
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<220>
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<220>
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<400> 183

Asp Val Val Cys Pro Met Ser

1 5

<210> 184
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<212> PRT
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<220>
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<223> X is norleucine

<220>
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<400> 184

Asp Ala Ile Pro Xaa Ser Ile Pro Cys
1 5

<210> 185
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<212> PRT
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<220>
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<220>
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<400> 185

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 186
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<220>
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<220>
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<223> D is derivatized with fluorophore

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<400> 186

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 187
<211> 12
<212> PRT
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<220>
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<223> K is derivatized with fluorophore

<400> 187

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 188
<211> 12
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<223> Xaa can be any naturally occurring amino acid

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<223> K is derivatized with fluorophore

<400> 188

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 189
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<400> 189

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 190
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<400> 190

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

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<400> 191

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

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<223> K is derivatized with fluorophore

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<400> 192

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

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<220>
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<400> 193

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<210> 194
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<223> K is derivatized with fluorophore

<400> 194

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
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<210> 195
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<400> 195

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

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<220>

<221> MOD_RES
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<400> 196

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 197
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<223> K is derivatized with fluorophore

<220>
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<400> 197

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 198
<211> 18
<212> PRT
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<223> K is derivatized with fluorophore

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<223> X is episilon aminocaproic acid

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<223> Xaa can be any naturally occurring amino acid

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<400> 198

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 199
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<223> K is derivatized with fluorophore

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<223> Xaa can be any naturally occurring amino acid

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<400> 199

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 200
<211> 13
<212> PRT
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<223> Synthetic peptide substrate

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<223> K is derivatized with fluorophore

<220>
<221> MOD_RES
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<400> 200

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 201
<211> 13
<212> PRT
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<220>
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<400> 201

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 202
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<400> 202

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 203
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<223> Xaa is episilon-aminocaproic acid

<400> 203

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 204
<211> 18
<212> PRT
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<220>
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<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 204

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 205
<211> 18
<212> PRT
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 205

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 206
<211> 18
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<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 206

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 207
<211> 18
<212> PRT
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<220>

<223> Protease indicator

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<220>
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<400> 207

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 208
<211> 7
<212> PRT
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<220>
<223> Synthetic peptide substrate

<400> 208

Ile Glu Thr Asp Ser Gly Val
1 5

<210> 209
<211> 9
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<220>
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<220>
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<222> (1)..(1)
<223> X is D form of tetrahydroisoquinoline-3-carboxylic acid

<400> 209

Ser Glu Val Asn Leu Asp Ala Glu Phe
1 5

<210> 210
<211> 7
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<220>
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<222> (1)..(7)
<223> Artificial protease substrate

<400> 210

Tyr Val His Asp Ala Pro Val
1 5

<210> 211
<211> 4
<212> PRT
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<220>
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<400> 211

Gly Gly Gly Gly
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<210> 212
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 212

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 213
<211> 15
<212> PRT
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<220>
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<400> 213

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Lys Gly Tyr

1 5 10 15

<210> 214
<211> 16
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<400> 214

Lys Asp Pro Tyr Val His Asp Ala Pro Val Gly Lys Pro Lys Gly Tyr
1 5 10 15

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<220>
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<400> 215

Lys Asp Asx Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 216
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<213> Artificial

<220>
<223> Protease indicator

<400> 216

Tyr Val His Asp Ala Pro Val
1 5

<210> 217
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Tyr Val His Asp Ala Pro Val
1 5

<210> 218
<211> 14
<212> PRT
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<220>
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<400> 218

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 219
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Protease indicator

<400> 219

Lys Asp Asx Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 220
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<400> 220

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 221
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<400> 221

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr